

1-19. (CANCELED)

20. (NEW) A reinforced safety device for collecting electrical energy at ground level for a land-borne ground level electrical feed type vehicle by a sliding contact with at least one polar part, the safety device comprising:

a collection blade (10) having a vehicle support holder (11) on an upper part of the collection blade (10);

means for raising the blade (10) and means for electrically connecting the blade (10) to a feed circuit of the vehicle, the blade (10) being electrically insulated from ground and any lane structures, a part of the blade (10) can spread apart two holding fixtures (23, 24), which are placed side-by-side opposite to one another, the two holding fixtures (23, 24) run either on the ground or in the ground along a lane, and are supported by a support carrier (21) having a bottom that is approximately flat and two lateral walls to form a collection assembly (9), collecting parts or areas of the blade (10) are maintained in electrical contact by sliding along one of conductors or conducting parts (19, 20) which are supported by each holding fixture (23, 24), each of the holding fixtures (23, 24) is provided along an entire length with elastic recall return towards an adjacent counterpart by elastic compressibility means engendering locally an elastic recall force to bring the holding fixtures (23, 24) together after one of lateral compression or a series of separate recall devices.

21. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the elastic compressibility means engendering locally the elastic recall force for one of the two holding fixtures (23, 24) is a tubular elastic body (25, 26) that is subjected to lateral compression and is housed

in a space existing between the holding fixture (23, 24) and the corresponding lateral wall of the carrier support (21) of the collection assembly (9).

22. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein a body of the blade (10) is a flat piece (12) with a forward beveled edge (14) and a lower extremity in a form of a bulge in a shape of a longitudinal block (15), the longitudinal block (15) having two flat lateral edges (17, 18), at least one of the two flat lateral edges (17, 18) has a sliding contact on one of an opposing conductor or a conducting part (19, 20) supported by the corresponding holding fixture (23, 24).

23. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein each conductor (19, 20) is connected to a different electrical phase and feeds the blade (10) via two electrical pathways.

24. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 23, wherein the collection blade (10) has two electrical conductors that are insulated from one another and are each connected to a different electrical phase.

25. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the holding fixtures (23, 24) are made of a flexible insulating material so as to permit a local gap for clear passage of the blade (10).

26. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the conductors (19, 20) are inserted into

a slot provided in a cavity of a face of an edge of one of the holding fixtures (23, 24) facing an other one of the holding fixtures (23, 24).

27. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the support section (21) is buried and the surface of the ground is protected by a protection (28) based on an insulating opening which is opened by passage of the blade (10), and the insulating opening closes after the blade (10) pass thereby.

28. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 27, wherein an upper surface of the support section (21), equipped with the protector (28) in the insulation cover, opens with the passage of the blade (10) and the insulating opening closes after the blade (10) passes thereby.

29. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the device for electrical collection feeds a vehicle guided by a central rail of a guidance assembly at ground level (8).

30. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the blade (10) is connected to a guidance arm (42) of the vehicle.

31. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the safety device further comprises a guide rail having two semi-rails (29, 30) installed side-by-side, a guide roller (40, 41) of a guidance assembly (42) of the vehicle rolls on each of the two semi-rails (29, 30).

32. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 31, wherein each of the two semi-rails (29, 30) has a

general transverse shape in the form of a U consisting of a rail riser wing (31) terminated at a top in a rail conformation (32), a base (33) and a longitudinal return toward the top forming a lateral wall (34) which terminates in an upper edge (35) that turns back in toward an interior.

33. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 32, wherein the rail riser wing (31) has a thick core (36) and a head (37) which, when viewed in cross-section, has a shape of a hook comprised on an external side of a linear projection formed of a rolling track (39) on which rolls one of the guide rollers (40, 41) on a load-bearing surface, the rolling track (39) is sloped toward a bottom of an inclined ramp (43) and on an other side, with a flat, horizontal edge (44) and on an inner side, the conformation consists of a flat horizontal bearing edge (45) followed by a perpendicular edge with a middle receiver slot (46), the conformation constituting the reception surface for a linear watertight joint (47).

34. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claims 32, wherein a space between the lateral wall and the thick core (36) is filled by a flexible joint (38) with an upper face inclined, the flexible joint (38) is immobilized between walls and an upper edge (35), which turns back toward an interior.

35. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 31, wherein the collection blade (10) traverses the guide rail and a composite joint (47), two parts of the composite joint (47) spread apart or are raised locally when the blade (10) passes, and recoil after passage of the blade (10).

36. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 35, wherein the composite joint (47) is formed of two linear joints (48, 49) which are installed in a side-by-side manner and which meet at an edges a middle section, and constitute a linear pivoting articulation by means of opposite edges with conformation with an extremity of the corresponding semi-rail (29, 30).

37. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the reinforced safety device is intended for a vehicle guided by the ground level electrical energy collection assembly moving along a guide rail.

38. (NEW) The reinforced safety device for collecting electrical energy at ground level according to claim 20, wherein the reinforced safety device is intended for a vehicle guided by other than the ground level electrical energy collection assembly moving along a guide rail.